



? "Test for Quick Audio Men" English Questions 02

Write down quickly a numerical value or a slogan.

UdK Berlin
Sengpiel
10.96
F + A

1. Which dynamic gain can be achieved with a 20 bit digital hard disk recording in contrast to a conventional 16-bit DAT recording? More than 20 bits are practically not possible. 24 bits are really not the "truth".
2. At what frequency in natural hearing in the median plane is the Blauert's direction-determining "above" band?
3. Which wavelength λ in air at 20°C has a tone of the frequency $f = 1$ kHz?
4. A sound engineer must be able to understand the dimensions of an American colleague. How many centimeters are one 'foot'? Calculate this from an inch.
5. A vibrato refers to the change per second of a frequency. What is the frequency in Hertz, which is supposed to be the most effective and most beautiful violin vibrato?
6. Loudspeakers have usually an input impedance of 8 ohms. Which output resistance do have studio loudspeaker power amplifiers? (AC resistance = impedance).
7. How do we call the musical technical term for a choir without instrumental accompaniment?
8. At which pitch (frequency f) our hearing is the most sensitive?
9. What is the rear attenuation in dB at 1 kHz of a "wide cardioid" microphone pattern (KM 143 and MK 21)?
10. At what frequency we find the main formant of the sung vowel "A"?
11. What is the output resistance (nominal impedance) of the microphones of the KM 100-series from Neumann?
12. What percentage of sound takes a hypercardioid microphone compared to a microphone with the characteristics of a sphere (omni directional microphone)?
13. Using the 48 V phantom power (DIN 45596), the voltage is given across two resistors on the two "modulation lines". What are the values of these resistors?
14. A music was recorded with a NAB standard 38 cm/s tape recorder. When listened with a IEC = DIN = CCIR tape recorder the level has to be corrected with an EQ of the mixer at 60 Hz and 10 kHz? Which level correction is needed?
15. What is the effective diameter of a "small diaphragm microphone" (condenser microphone)?
The effective diameter of the microphone diaphragm is in miniature microphones around 20 mm (18 ... 21 mm).